

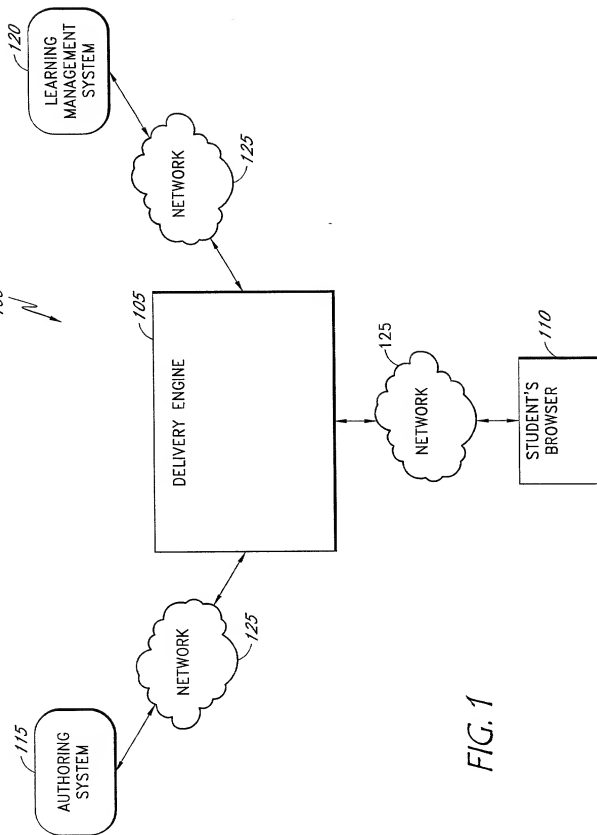
DISTRIBUTED LEARNING SYSTEM  
100

FIG. 1

# AUTHORING AND MANAGEMENT INTERFACE SYSTEM

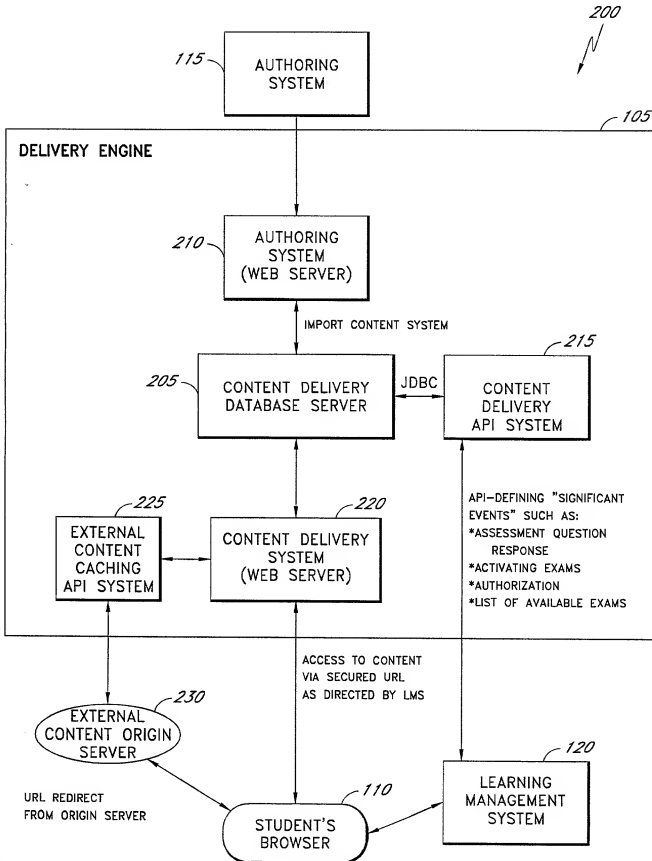


FIG. 2

AUTHORIZED VIA LMS FOR ACCESS TO CONTENT, EXAMS OR OTHER SERVICES. ONCE AUTHORIZED LEARNER IS POINTED TO SECURED URL TO ACCESS CONTENT

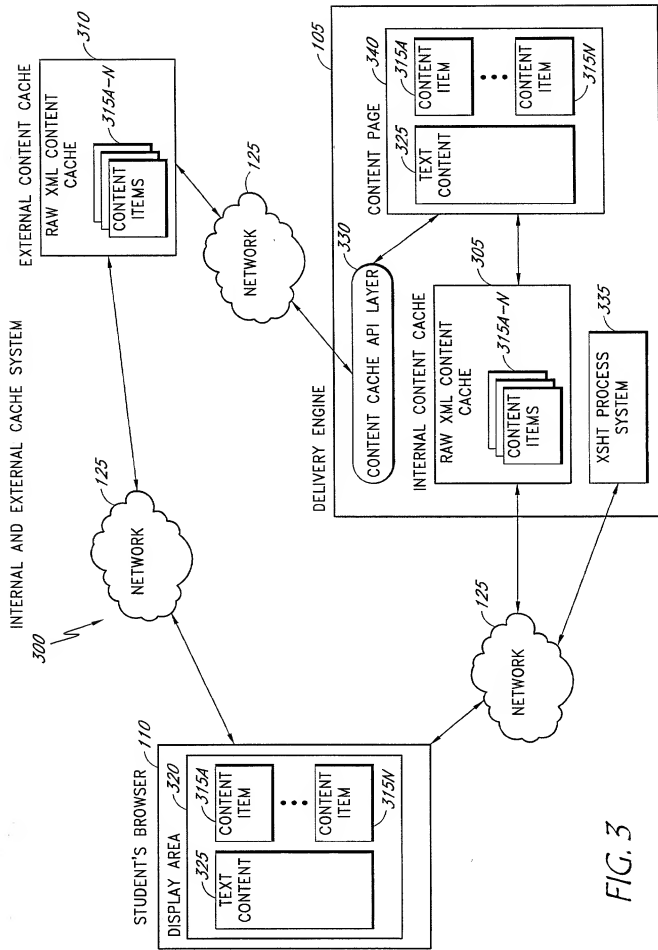



FIG. 3

105  


DELIVERY ENGINE

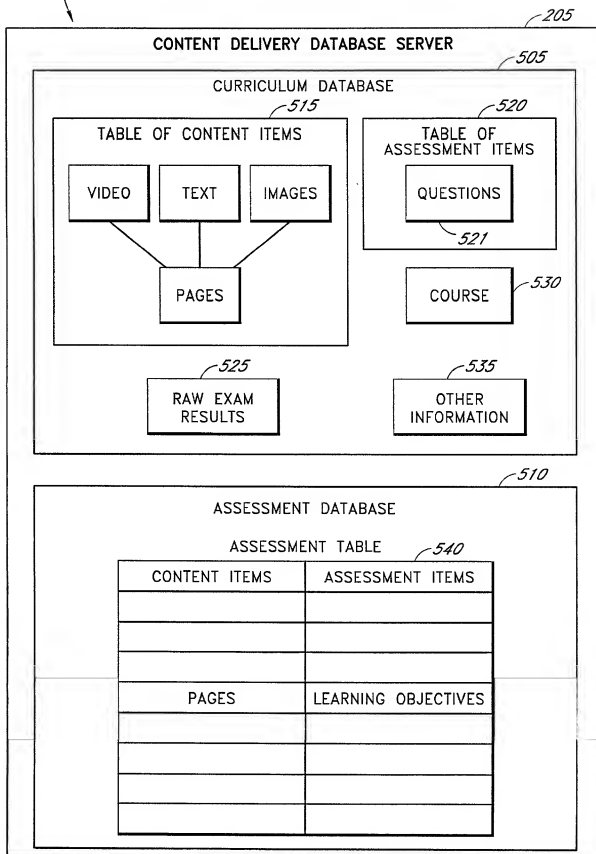


FIG. 4

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APPLICATION PROGRAMMING INTERFACE LAYER

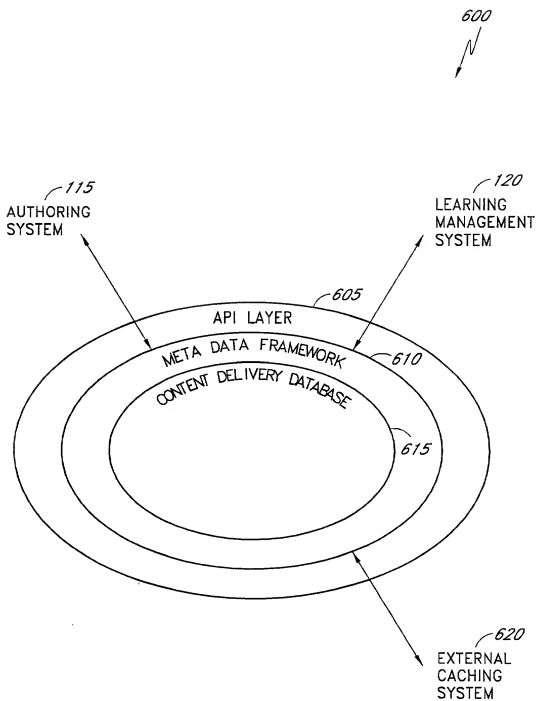


FIG. 5

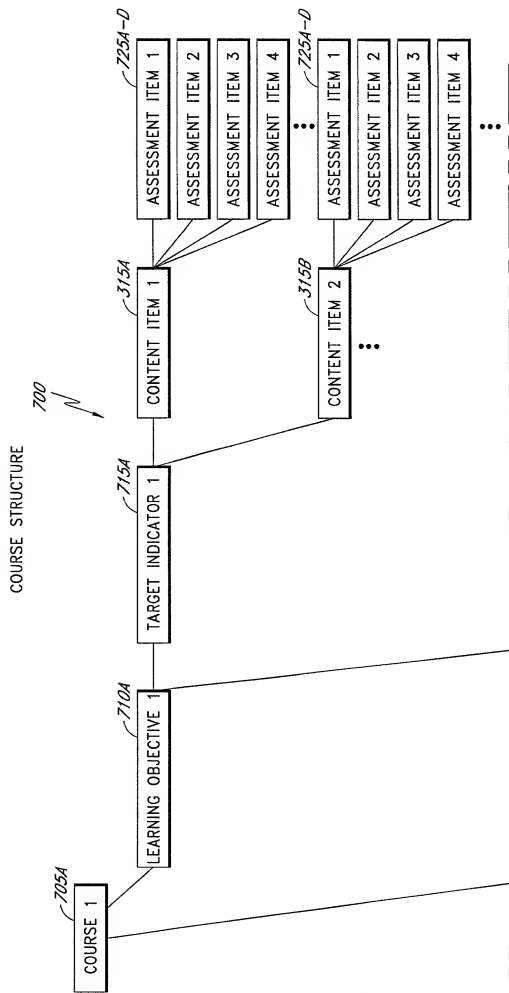


FIG. 6B

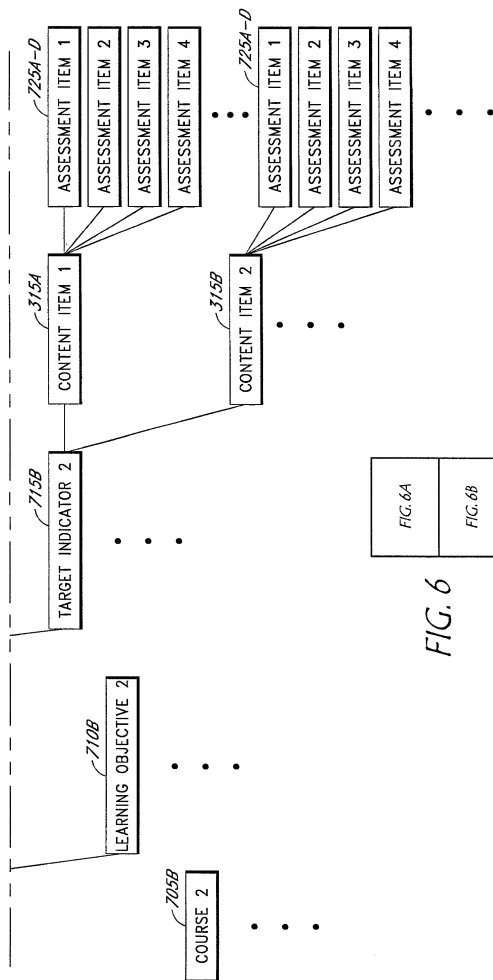
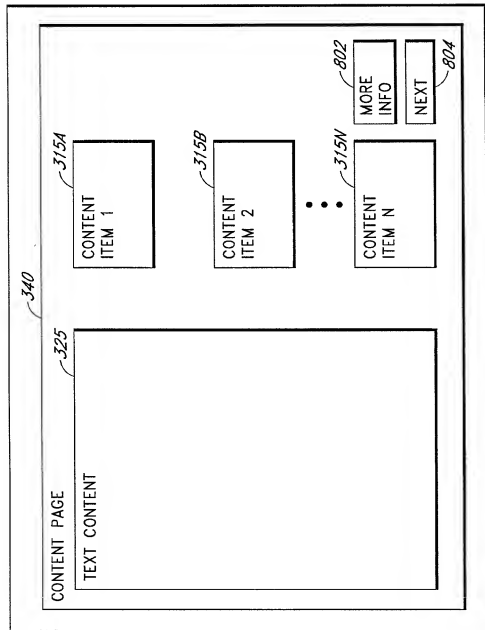


FIG. 6

## LESSON DISPLAY SCREEN

800

FIG. 7

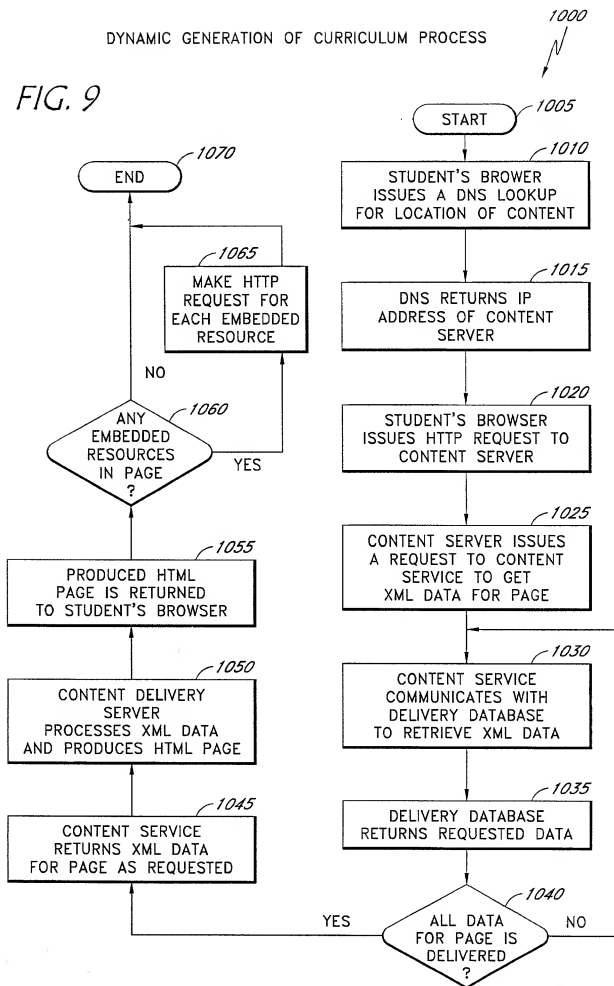




[illegible]

# DYNAMIC GENERATION OF CURRICULUM PROCESS

FIG. 9



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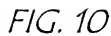
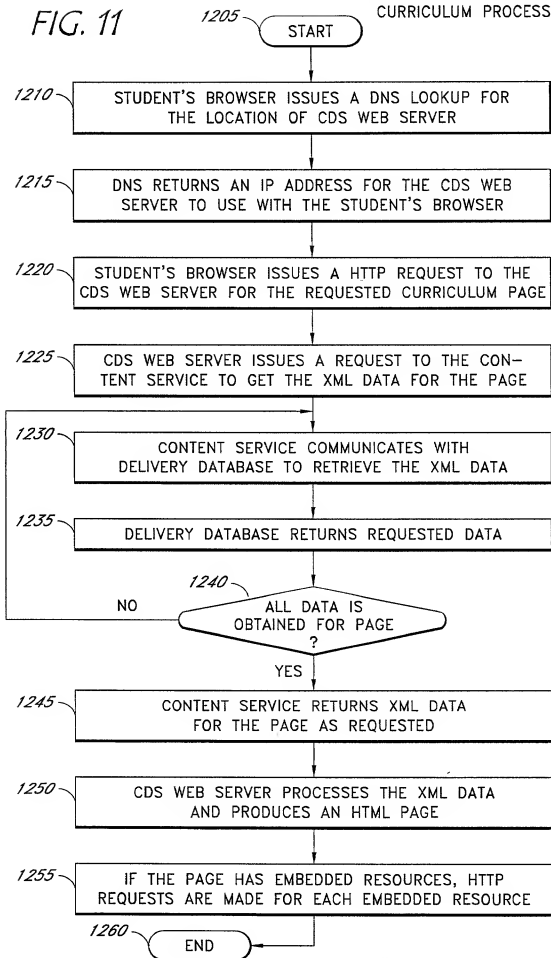
[illegible]

FIG. 11

DYNAMICALLY GENERATED CURRICULUM PROCESS

1200



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# DYNAMICALLY GENERATED CURRICULUM SYSTEM WITH EXTERNAL CACHE

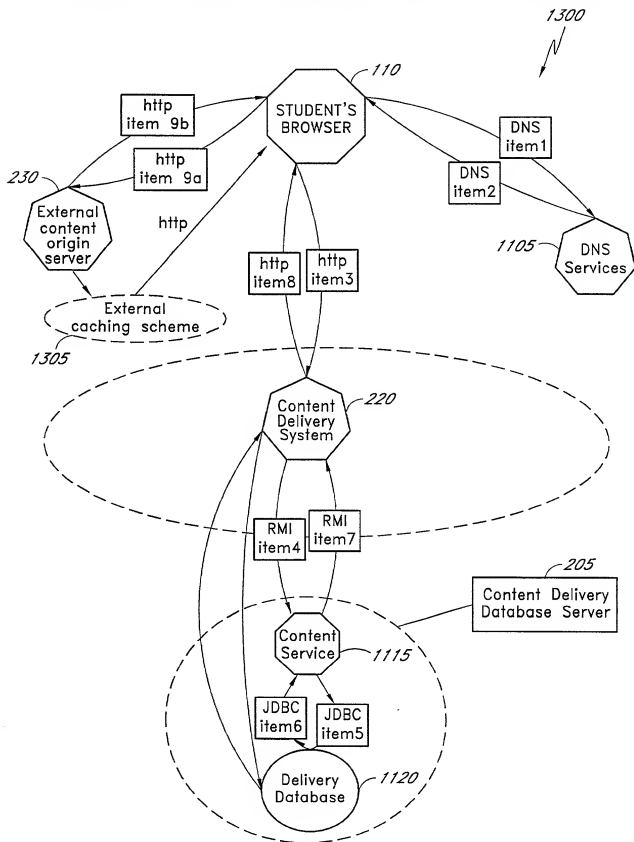


FIG. 12

FIG. 13

1405

START

DYNAMICALLY GENERATED  
CURRICULUM PROCESS  
WITH EXTERNAL CACHE

1400

1410

STUDENT'S BROWSER ISSUES A DNS LOOKUP FOR  
THE LOCATION OF CDS WEB SERVER

1415

DNS RETURNS AN IP ADDRESS FOR THE CDS WEB  
SERVER TO USE WITH THE STUDENT'S BROWSER

1420

STUDENT'S BROWSER ISSUES A HTTP REQUEST TO THE  
CDS WEB SERVER FOR THE REQUESTED CURRICULUM PAGE

1425

CDS WEB SERVER ISSUES A REQUEST TO THE CON-  
TENT SERVICE TO GET THE XML DATA FOR THE PAGE

1430

CONTENT SERVICE COMMUNICATES WITH  
DELIVERY DATABASE TO RETRIEVE THE XML DATA

1435

DELIVERY DATABASE RETURNS REQUESTED DATA

1440

NO

ALL DATA IS  
OBTAINED FOR PAGE  
?

1470

END

YES

1445

CONTENT SERVICE RETURNS XML DATA  
FOR THE PAGE AS REQUESTED

1450

CDS WEB SERVER PROCESSES THE XML DATA  
AND PRODUCES AN HTML PAGE

1455

IF THE PAGE HAS EMBEDDED RESOURCES, HTTP  
REQUESTS ARE MADE FOR EACH EMBEDDED RESOURCE

1460

STUDENT'S BROWSER ISSUES HTTP REQUEST  
FOR RESOURCE FROM THE NEW ORIGIN SERVER

1465

ORIGIN SERVER ISSUES HTTP TO REDIRECT STUDENT'S  
BROWSER TO POINT BROWSER TO INTERNAL CACHING SCHEME

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# LIST OF AVAILABLE ACTIVE EXAMS RETRIEVAL SYSTEM

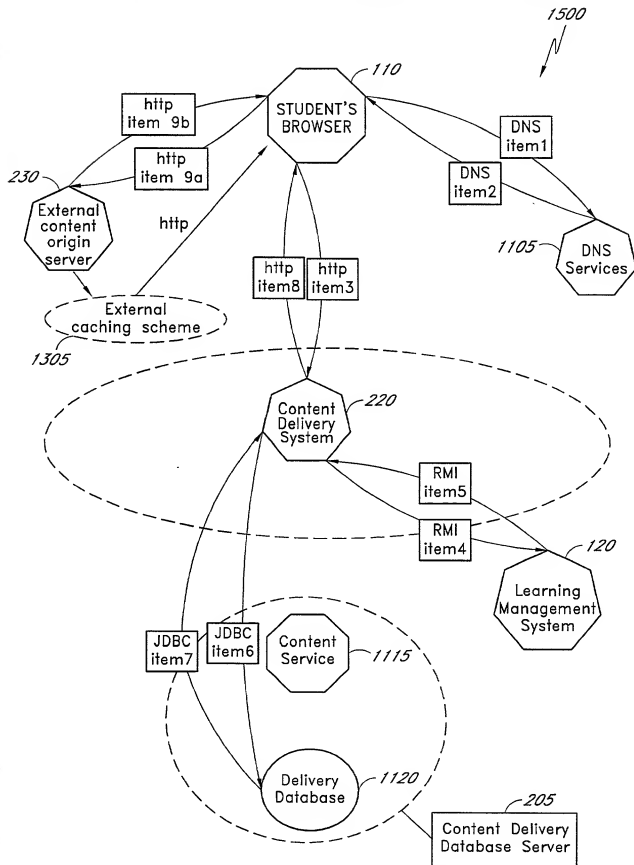


FIG. 14

LIST OF AVAILABLE ACTIVE  
EXAMS RETRIEVAL PROCESS

FIG. 15A

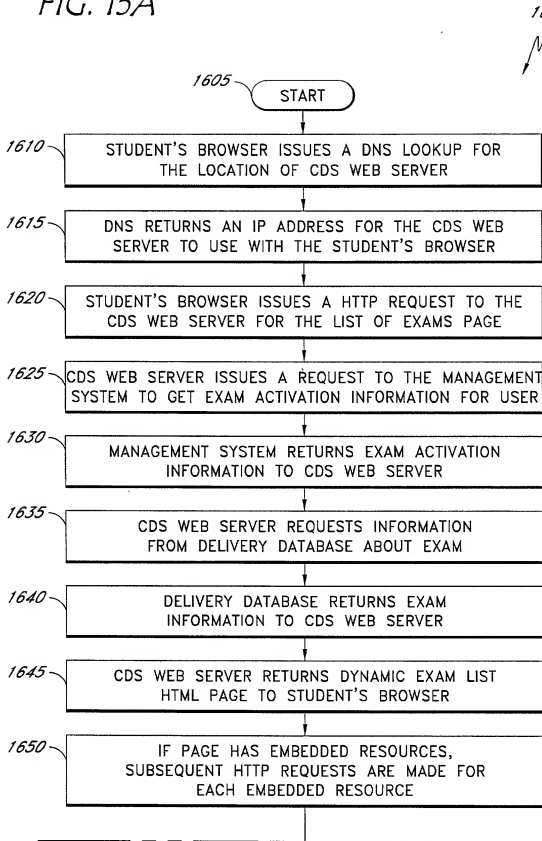




FIG. 15B

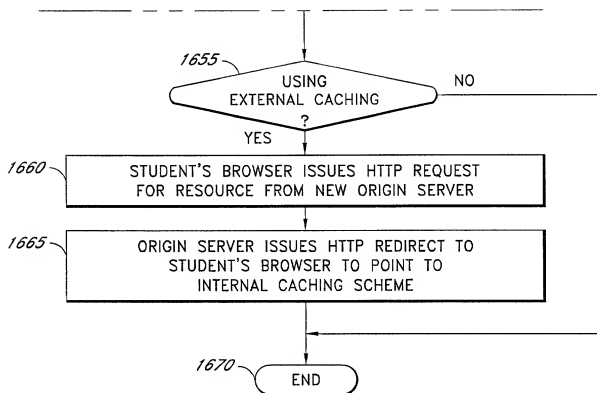


FIG. 15A

FIG. 15B

FIG. 15

# EXAM COMMENCEMENT SYSTEM

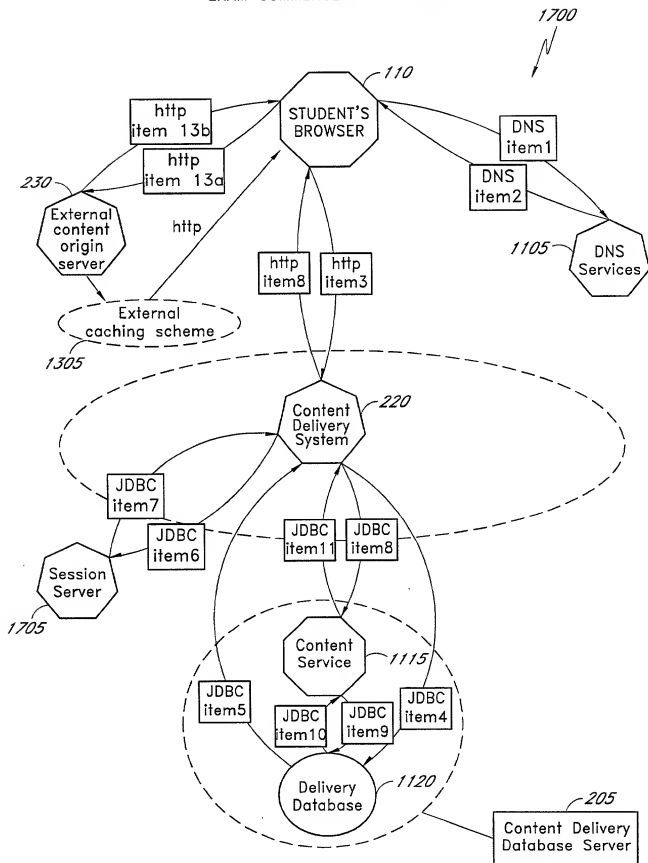
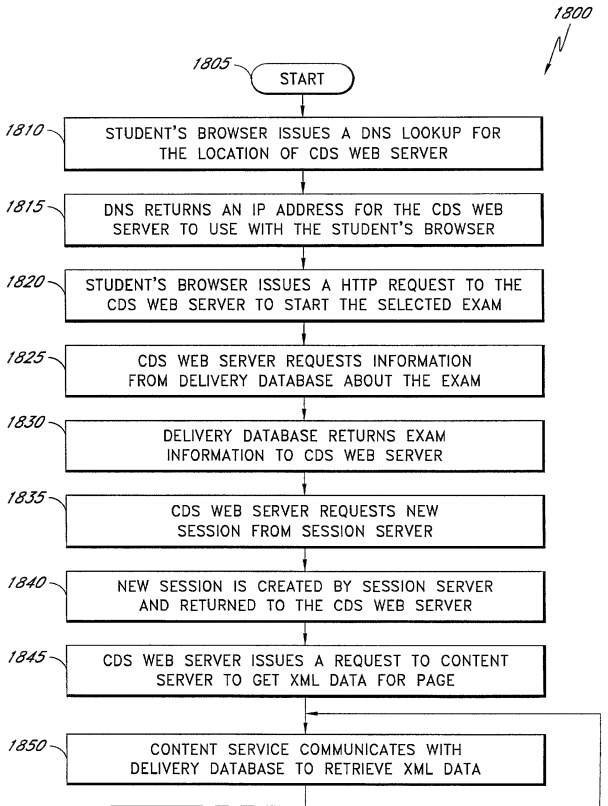


FIG. 16

FIG. 17A

EXAM COMMENCEMENT PROCESS



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FIG. 17B

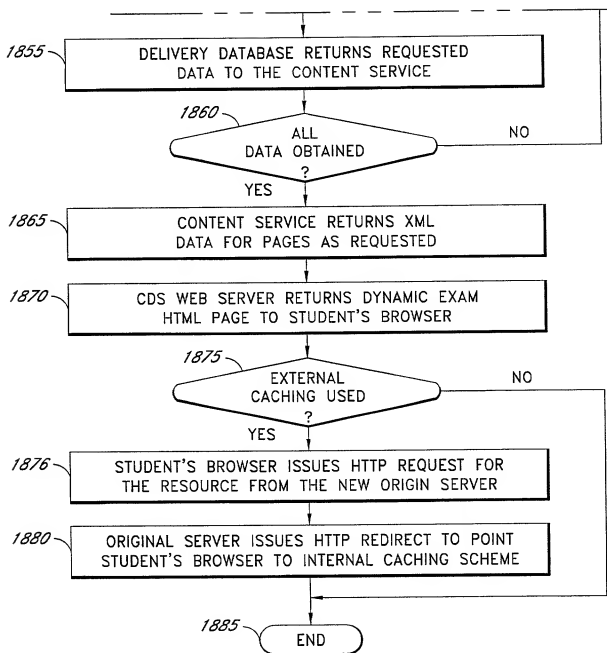


FIG. 17A

FIG. 17AB

FIG. 17

# EXAM CUSTOMIZATION PROCESS

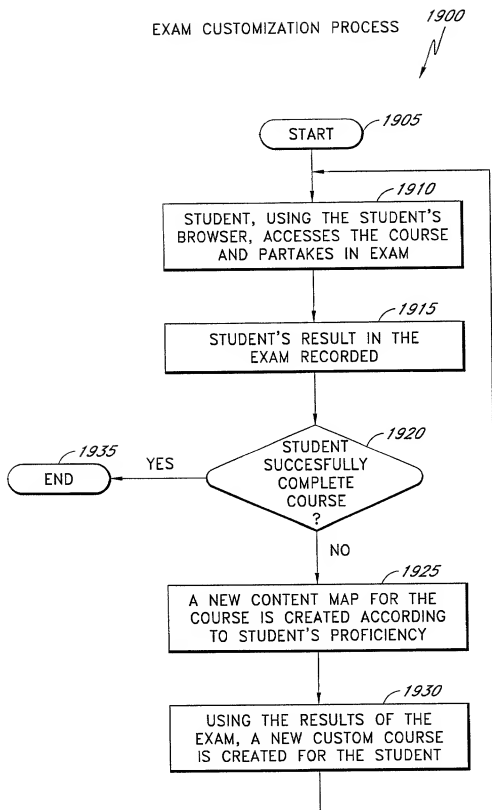


FIG. 18